

Patent Claims

1. A device for supplying casting installations with molten metal, having a melting crucible (3), a dosing pump (21, 23), which is dipped into a melt (4), and a discharge pump, communicating with the dosing pump,

characterized by the fact that

the outlet pipe (12) is introduced so that it penetrates through the cover (2) of the crucible in the upward direction and so that it is pivotable in this crucible cover.

2. The device according to claim 1, characterized by the fact that the discharge pipe (12) is a part of a crucible insert (1), inserted into the cover of the crucible, which also comprises the dosing pump.

3. The device according to claims 1 and 2, characterized by the fact that the dosing pump is provided with a driving motor (19), which is deployed outside of the crucible cover (2).

4. The device according one of the preceding claims, characterized by the fact that the pressure side of the dosing pump is connected via a U-shaped connection pipe (15) with the lower end of the discharge pump (12).

5. The device according to claim 4, characterized by the fact that the connecting pipe (15) is attached via a holder (16) to a lid flange (8), which is deployed on the crucible cover (2).

6. The device according to claim 5, characterized by the fact that the lid flange (8) is provided with penetrating openings (31, 32) for the pump pipe (11) and the discharge pump (12).

7. The device according to claim 1, characterized by the fact that the discharge pipe (12) is equipped approximately at a half of the height with a laterally bent discharge neck (13).

8. The device according to claim 7, characterized by the fact that above the discharge neck (13) is created a supply opening (28) for a shielding gas in the discharge pipe (12).

9. The device according to claim 7, characterized by the fact that the discharge pipe (12) is equipped in the area outside of the crucible cover (2) up to at least the discharge neck (13) with heat insulation (26), and optionally also with a heating device (27).

10. The device according to claim 4, characterized by the fact that the connecting pipe (15) is equipped with heat resistant plug connections (17 or 14) for the pressure side of the dosing pumps (17, 18) and the discharge pipe.

FIG. 1 ~ FIG. 5

SEARCH REPORT

[already translated in its entirety into English]

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